

FORM PTO 1449

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

MNFRAME.040A

APPLICATION NO.

08/942,168

INFORMATION DISCLOSURE STATEMENT  
BY APPLICANT

JAN 12 1998

(USE SEVERAL SHEETS IF NECESSARY)

APPLICANT

Liu et al.

FILING DATE

October 1, 1997

GROUP

Unknown

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
<i>B</i>	5,210,855	05/11/93	Bartol			
	5,471,617	11/28/95	Farrand et al.			
	5,579,491	11/26/96	Jeffries et al.			
<i>↓</i>	5,621,892	04/15/97	Cook			

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)


EXAMINER

*Scott Baderman*

DATE CONSIDERED

*12/6/99*

\*EXAMINER: INITIAL IF CITATION CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED, INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT  (USE SEVERAL SHEETS IF NECESSARY)			
		APPLICANT LIU, ET AL.	JAN 21 1999
		FILING DATE October 1, 1997	GROUP 2785
		Group 2700	

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)	
AB ↓	4,449,182	05/15/84	Rubinson et al.	—	—		
	4,835,737	05/30/89	Herrig et al.	—	—		
	4,949,245	08/14/90	Martin et al.	—	—		
	4,999,787	03/12/91	McNally et al.	—	—		
	<del>5,210,855</del>	<del>05/11/93</del>	<del>Bartol</del>	—	—		
AB ↓	5,269,011	12/07/93	Yanai et al.	—	—		
	5,272,584	12/21/93	Austruy et al.	—	—		
	5,317,693	05/31/94	Cuenod et al.	—	—		
	5,329,625	07/12/94	Kannan et al.	—	—		
	5,337,413	08/09/94	Lui et al.	—	—		
	5,386,567	01/31/95	Lien et al.	—	—		
	5,483,419	01/09/96	Kaczeus, Sr. et al.	—	—		
	5,493,574	02/20/96	McKinley	—	—		
	5,493,666	02/20/96	Fitch	—	—		
	5,517,646	05/14/96	Piccirillo et al.	—	—		
	5,555,510	09/10/96	Verseput et al.	—	—		
	5,564,024	10/08/96	Pemberton	—	—		
	5,568,610	10/22/96	Brown	—	—		
	<del>5,579,491</del>	<del>11/26/96</del>	<del>Jeffries et al.</del>	—	—		
	AB ↓	5,581,712	12/03/96	Herrman	—	—	
		5,588,144	12/24/96	Inoue et al.	—	—	
5,606,672		02/25/97	Wade	—	—		
5,608,876		03/04/97	Cohen et al.	—	—		
5,615,207		03/25/97	Gephardt et al.	—	—		
5,632,021		05/20/97	Jennings et al.	—	—		
5,638,289		06/10/97	Yamada et al.	—	—		
5,644,470		07/01/97	Benedict et al.	—	—		
5,644,731		07/01/97	Lienres et al.	—	—		

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (USE SEVERAL SHEETS IF NECESSARY)		RECEIVED JAN 21 1999	
		APPLICANT LIU, ET AL.	FILING DATE October 1, 1997
		GROUP 2785	Group 2700

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
	5,651,006	07/22/97	Fujino et al.			
	5,652,832	07/29/97	Kane et al.			
	5,664,119	09/02/97	Jeffries et al.			
	5,680,288	10/21/97	Carey et al.			
	5,696,970	12/09/97	Sandage et al.			
	5,726,506	03/10/98	Wood			
	5,740,378	04/14/98	Rehl et al.			
	5,747,889	05/05/98	Raynham et al.			
	5,748,426	05/05/98	Bedingfield et al.			
	5,754,797	05/19/98	Takahashi			
	5,761,033	06/02/98	Wilhelm			
	5,761,045	06/02/98	Olson et al.			
	5,764,968	06/09/98	Ninomiya			
	5,765,198	06/09/98	McCrocklin et al.			
	5,768,541	06/16/98	Pan-Ratzlaff			
	5,768,542	06/16/98	Enstrom et al.			
	5,781,767	07/14/98	Inoue et al.			
	5,781,798	07/14/98	Beatty et al.			
	5,784,576	07/21/98	Guthrie et al.			
	5,790,831	08/04/98	Lin et al.			
	5,793,987	08/11/98	Quackenbush et al.			
	5,794,035	08/11/98	Golub et al.			
	5,796,185	08/18/98	Takata et al.			
	5,796,981	08/18/98	Abudayyeh et al.			
	5,798,828	08/25/98	Thomas et al.			
	5,799,036	08/25/98	Staples			
	5,802,269	09/01/98	Poisner et al.			
	5,802,393	09/01/98	Begun et al.			

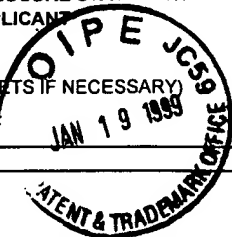
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		FILING DATE October 1, 1997	
		GROUP 2785	

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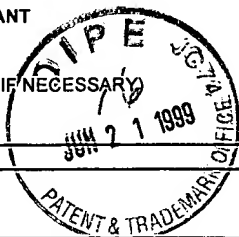


## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
<i>AB</i>	5,802,552	09/01/98	Fandrich et al.	—	—	
	5,805,834	09/08/98	McKinley et al.	—	—	
	5,809,224	09/15/98	Schultz et al.	—	—	
	5,812,757	09/22/98	Okamoto et al.	—	—	
	5,812,858	09/22/98	Nookala et al.	—	—	
	5,815,117	09/29/98	Kolaneck	—	—	
	5,822,547	10/13/98	Boesch et al.	—	—	

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		APPLICANT Liu et al.  FILING DATE October 1, 1997	GROUP 2785



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## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
<i>AB</i>	A	4,057,847	11/08/77	Lowell et al.	364	200	
	B	4,672,535	06/09/87	Katzman et al.	364	200	
	C	4,769,764	09/06/88	Levanon	364	708	
	D	5,051,720	09/24/91	Kittirutsunetorn	340	310 R	
	E	5,157,663	10/20/92	Major et al.	371	9.1	
	F	5,253,348	10/12/93	Scalise	395	325	
	G	5,266,838	11/30/93	Gerner	307	19	
	H	5,432,946	07/11/95	Allard et al.	395	750	
	I	5,473,499	12/05/95	Weir	361	58	
	J	5,526,289	06/11/96	Dinh et al.	364	557	
	K	5,528,409	06/18/96	Cucci et al.	359	171	
	L	5,546,272	08/13/96	Moss et al.	361	687	
	M	5,559,764	09/24/96	Chen et al.	396	30	
	N	5,559,958	09/24/96	Farrand et al.	395	183.03	
	O	5,572,403	11/05/96	Mills	361	695	
	P	5,598,407	01/28/97	Bud et al.	370	330	
	Q	5,621,159	04/15/97	Brown et al.	73	9	
	R	5,622,221	04/22/97	Genga, Jr. et al.	165	208	
	S	5,652,892	07/29/97	Ugajin	395	750	
	T	5,671,371	09/23/97	Kondo et al.	395	306	
	U	5,737,708	04/07/98	Grob et al.	455	557	
	V	5,742,833	04/21/98	Dea et al.	395	750.05	
	W	5,752,164	05/12/98	Jones	455	33.1	
	X	5,778,197	07/07/98	Dunham	395	284	
	Y	5,787,459	07/28/98	Stallmo et al.	711	112	
	Z	5,790,775	08/04/98	Marks et al.	395	182.07	
	A1	5,796,580	08/18/98	Komatsu et al.	361	687	
	B1	5,802,305	09/01/98	McKaughan et al.	395	200.57	

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17 JUN 21 1999		FILING DATE October 1, 1997	GROUP 2785
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## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
AS	C1	5,802,324	09/01/98	Wunderlich et al.	395	281	
	D1	5,803,357	09/08/98	Lakin	236	78 B	
	E1	5,812,748	09/22/98	Ohran et al.	395	182.02	
	F1	5,821,596	10/13/98	Miu et al.	257	419	
	G1	5,835,719	11/10/98	Gibson et al.	395	200.51	
	H1	5,838,932	11/17/98	Alzien	395	308	
	I1	5,852,724	12/22/98	Glenn, II et al.	395	200.69	
	J1	5,864,653	01/26/99	Tavallaei et al.	315	181	
	K1	5,875,310	02/23/99	Buckland et al.	395	306	
	L1	5,878,238	03/02/99	Gan et al.	395	308	
	M1	5,881,311	03/09/99	Woods	395	824	
	N1						

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)	
	1	Shanley and Anderson, <b>PCI System Architecture, Third Edition</b> , Chapters 15 & 16, pp. 297-328, CR 1995.
	2	PCI Hot-Plug Specification, Preliminary Revision for Review Only, Revision 0.9, pp. i-vi, and 1-25, March 5, 1997.
	3	SES SCSI-3 Enclosure Services, X3T10/Project 1212-D/Rev 8a, pp. i, iii-x, 1-76, and I-1 (index), January 16, 1997.
	4	Compaq Computer Corporation, Technology Brief, pp. 1-13, December 1996, "Where Do I Plug the Cable? Solving the Logical-Physical Slot Numbering Problem."

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2785

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	1	<del>4,440,182</del>	<del>05/15/84</del>	<del>Robinson et al.</del>	364	200	
AS	2	4,695,946	09/22/87	Andreasen et al.	364	200	
	3	4,707,803	11/17/87	Anthony, Jr. et al.	364	900	
	4	4,774,502	09/27/88	Kimura	340	501	
	5	<del>4,949,245</del>	<del>08/14/90</del>	<del>Martin et al.</del>	364	200	
AS	6	4,968,977	11/06/90	Chinnaswamy et al.	340	825.8	
	7	5,051,720	09/24/91	Kittirutsunetorn	340	310 R	
	8	5,073,932	12/17/91	Yossifor et al.	380	23	
	9	5,103,391	04/07/92	Barrett	364	133	
	10	5,247,683	09/21/93	Holmes et al.	395	700	
	11	5,272,382	12/21/93	Heald et al.	307	66	
	12	<del>5,272,584</del>	<del>12/21/93</del>	<del>Austruy et al.</del>	361	58	
AS	13	5,283,905	02/01/94	Saadeh et al.	395	750	
	14	5,311,451	05/10/94	Barrett	364	550	
	15	<del>5,329,625</del>	<del>07/12/94</del>	<del>Kannan et al.</del>	395	275	
	16	<del>5,337,413</del>	<del>08/09/94</del>	<del>Lui et al.</del>	395	275	
AS	17	5,367,670	11/22/94	Ward et al.	395	575	
	18	5,379,184	01/03/95	Barraza et al.	361	685	
	19	<del>5,386,567</del>	<del>01/31/95</del>	<del>Lien et al.</del>	395	700	
AS	20	5,402,431	03/28/95	Saadeh et al.	371	67.1	
	21	5,426,740	06/20/95	Bennett	395	325	
	22	5,430,845	07/04/95	Rimmer et al.	395	275	
	23	5,455,933	10/03/95	Schieve et al.	395	183.03	
	24	5,564,024	10/08/96	Pemberton	395	283	
	25	5,602,758	02/11/97	Lincoln et al.	364	505	
	26	<del>5,644,731</del>	<del>07/01/97</del>	<del>Liencrees et al.</del>	395	283	
AS	27	5,652,839	07/29/97	Giorgio et al.	395	200.11	
	28	<del>5,680,288</del>	<del>10/24/97</del>	<del>Garey et al.</del>	361	118	06/07/95
AS	29	5,696,949	12/09/97	Young	395	551	06/15/95
	30	5,704,031	12/30/97	Mikami et al.	395	182.02	12/08/95

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## U.S. PATENT DOCUMENTS

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AS	31	5,742,514	04/21/98	Bonola	364	492	09/11/96
AS	32	5,758,352	05/26/98	Reynolds et al.	707	200	09/05/96
	33	<del>5,764,968</del>	<del>06/09/98</del>	<del>Ninomiya</del>	395	560	08/05/96
AS	34	5,767,844	06/16/98	Stoye	345	212	02/29/96
	35	<del>5,793,987</del>	<del>08/11/98</del>	<del>Quackenbush et al.</del>	395	280	07/22/96
AS	36	5,793,992	08/11/98	Steele et al.	395	293	06/13/96
AS	37	5,799,196	08/25/98	Flannery	395	750.03	07/02/96
	38	<del>5,802,562</del>	<del>09/01/98</del>	<del>Fandrich et al.</del>	711	103	10/1/97
AS	39	5,815,652	09/29/98	Ote et al.	395	183.07	05/30/96
	40	5,838,935	11/17/98	Davis et al.	395	309	12/29/95
	41	5,867,730	02/02/99	Leyda	395	830	07/31/97
	42	5,878,237	03/02/99	Olarig	395	308	07/11/97
	43	5,878,238	03/02/99	Gan et al.	395	308	08/07/97
	44	5,907,672	05/25/99	Matze et al.	395	182.06	10/04/95
	45	5,913,034	06/15/99	Malcolm	395	200.53	08/27/96
	46	5,918,057	06/29/99	Chou et al.	395	733	03/20/97
	47	5,922,060	07/13/99	Goodrum	710	103	12/31/96
	48	5,936,960	08/10/99	Stewart	370	438	08/21/97

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
AS	49	EP 0 866 403 A1	09/23/98	European Patent Office	G06F	13/10		

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